

IN THE SPECIFICATION

Please insert a new first paragraph prior to the section entitled "BACKGROUND OF THE INVENTION" as follows:

The inventions disclosed and claimed in this application were made as a result of activities undertaken within the scope of a joint research agreement among Sony Computer Entertainment Inc., Toshiba Corporation and International Business Machines Corporation executed March 9, 2001. The field of the claimed invention in the instant application relates to advanced computer processor architectures and systems.

Please replace paragraph 120 with the following paragraph:

[120] The structure of software cells 102 is illustrated in FIG. 23. As shown in this figure, a software cell, e.g., software cell 2302, contains routing information section 2304 and body 2306. The information contained in routing information section 2304 is dependent upon the protocol of network 104. Routing information section 2304 contains header 2308, destination ID 2310, source ID 2312 and reply ID 2314. The destination ID includes a network address. Under the TCP/IP protocol, e.g., the network address is an Internet protocol (IP) address. Destination ID 2310 further includes the identity of the PE and APU to which the cell should be transmitted for processing. Source ID 2314-2312 contains a network address and identifies the PE and APU from which the cell originated to enable the destination PE and APU to obtain additional information regarding the cell if necessary. Reply ID 2314 contains a network address and identifies the PE and APU to which queries regarding the cell, and the result of processing of the cell, should be directed.